

WL-5470AP

802.11g Hi Power Multifunction AP/Router

5-port Hi-Power AP

The WL-5470AP is a multi-function AP designed for various different wireless applications. On the hardware side, it features 5 LAN ports and hardware hi-power amplifier that can boost the output power from standard 18dBm to over 25dBm*. On the software front, the WL-5470AP includes both powerful features and an easy-to-use interface to satisfy the demand of WISP operators, Home, or Office users.

8 Wireless Operating Modes

The WL-5470AP features an incredible 8-mode firmware.



AP mode

The most basic mode of multi-function Access Point. In this mode, the AP will act as a central hub for different Wireless LAN clients. Some hotspot APs requires 802.1x authenticator function to authenticate a user before providing Internet service.



Client Mode

Also known as Ethernet Client. In this mode, the AP will act as a WLAN card to connect with the remote AP. Users can connect PC or local LAN to the Ethernet port of the client mode AP. This mode is mostly used as a CPE device for WISP subscriber.



Bridge mode

In this mode, 2 access points in two remote locations connect to each other to provide a wireless bridge between 2 remote LANs. It is mostly used by enterprise to connect 2 remote office's network together. The bridge modes are connected by using either the WDS (Wireless Distribution System) or Adhoc topology



WDS Repeater

A repeater's function is to extend the wireless coverage of another wireless AP or router. For WDS repeater to work, the remote wireless AP/Router must also support WDS function.



Universal Repeater

An universal repeater can also extend the wireless coverage of another wireless AP or router. But the universal repeater does not require the remote device to have WDS function. Therefore, it can work with almost any wireless device.



WISP (Client Router) mode

In WISP mode, the AP will behave just the same as the Client mode for wireless function. However, router functions are added between the wireless WAN side and the Ethernet LAN side. Therefore, the WISP subscriber can share the WISP connection without the need for extra router.



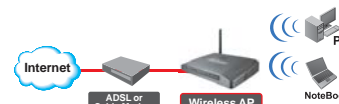
WISP + Universal Repeater mode

In this mode, the AP behaves virtually the same as the WISP mode, except one thing: the AP can also send wireless signal to the LAN side. That means the AP can connect with the remote WISP AP and the indoor wireless card, and then provide IP sharing capability all at the same time! However, the output power is divided between 2 wireless side and proper antenna installation can influence the performance greatly.



AP + Router mode

In AP + Router mode. The AP will behave like a broadband router. One of the LAN port will behave as a WAN port for wired connection to ADSL or Cable modem. The NAT routing will be performed between the WAN and LAN port. Making IP sharing possible.



WDS Site Survey and Universal Site Survey

The WL-5470AP adds WDS and Universal Site Survey to make bridge and repeater configuration much easier. Now you no longer have to look around for remote AP's MAC address to establish a bridge connection.

Boot loader Protection

The WL-5470AP feature the boot loader protection. Even if the machine's firmware crashed during firmware upgrade, the users can still recover the AP. This makes WL-5470AP much more reliable than other Realtek 8186 based AP.

Wireless Client Isolation

The WL-5470AP features the new Wireless Client Isolation function previous available only in more expensive APs. When you enable this function, the wireless clients will not be able to see each other. Therefore, it is an important function for office and Hotspot operator to protect the security between different wireless users.

ACK Timeout and TX Power Regulation

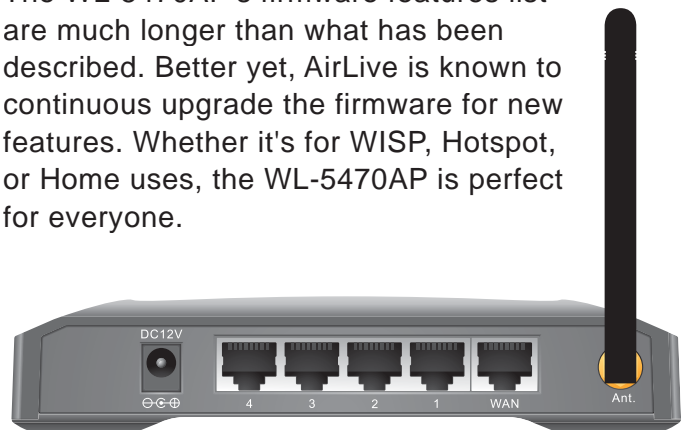
The WL-5470AP features ACK timeout function to let you adjust the timeout value for long distance operation. In addition, 5-level TX power adjustment let you match different antennas for

law compliance. The ability to set lower TX output power is also crucial if you want to match the AP with external power amplifier.

Extended Security Features

The WL-5470AP support WEP, WPA and WPA2 security functions. In addition, WPA enterprise for 802.1x authenticator are featured for AP and WDS mode. The combination of Encryption, Hide SSID and Access Control ensures your wireless network is completely secured from intruder.

The WL-5470AP's firmware features list are much longer than what has been described. Better yet, AirLive is known to continuous upgrade the firmware for new features. Whether it's for WISP, Hotspot, or Home uses, the WL-5470AP is perfect for everyone.



* The TX output power is limited to 20dBm in EU, 23dBm in U.S., and 27dBm in South America

FEATURES & SPECIFICATIONS

Features

- AP, Bridge, Client, Repeater functions
- Router and Gateway mode
- WISP Client Router mode
- WISP + Universal Repeater Mode
- Up to 25dBm output power
- Hardware Power Amplifier
- Detachable Antenna, 5 LAN ports
- 802.1x, WPA, WPA2 and Web Mgt.
- TX power regulation in 4 levels
- Watchdog function use PING

- Wireless Client Isolation
- WDS Site Survey
- ACK Timeout Adjustment
- DHCP Relay function
- 802.11g Protection
- MAC Access Control
- Telnet

Specifications

Hardware

- 5 x 10/100Mbps LAN Port

- 2MB Flash, 16MB SDRAM
- Reversed SMA Antenna Port
- Power, LAN, WLAN LED indicators

Antenna

- 2 dBi detachable Dipole Antenna
- Reversed SMA Connector

WISP Mode

- DHCP, PPTP, L2TP, PPPoE ISP Authentication Support
- Wireless Client function as WAN
- To configure the WISP mode, you PC must be connected to the LAN port

Gateway Mode

- 1 WAN and 4 LAN ports
- NAT Routing between WAN and LAN port
- Wireless used for LAN side
- Virtual Server, MAC filtering, DMZ, Firewall, IP filtering functions

Security

- 64/128-bit
- 802.1x Radius Support
- WPA/WPA2-PSK support
- WPA Enterprise support in AP/WDS mode

Configuration

- Web Management
- WDS (Bridge, Client, Repeater) mode
- Hide ESSID
- 802.1x

Frequency Range

- USA (FCC) 11 Channels: 2.412GHz~2.462GHz
- Europe (ETSI) 13 Channels : 2.412GHz~2.472GHz

Receiver Sensitivity

- | | | |
|--------------------------|--------|-----|
| - IEEE 802.11b Min (dBm) | 1Mbps | -96 |
| | 2Mbps | -94 |
| | 5Mbps | -93 |
| | 11Mbps | -89 |

- | | | |
|--------------------------|--------|-----|
| - IEEE 802.11g Min (dBm) | 6Mbps | -89 |
| | 9Mbps | -89 |
| | 12Mbps | -87 |
| | 18Mbps | -86 |
| | 24Mbps | -83 |
| | 36Mbps | -80 |
| | 48Mbps | -75 |
| | 54Mbps | -72 |

Modulation Technique

- 11g Orthogonal Frequency Division Multiplexing (64QAM, 16QAM, QPSK, BPSK)
- 11b Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
- Data Rate: 54, 48, 36, 24, 18, 11, 5.5, 2, 1 Mbps

Output Power

- 20dBm(EU), 23dBm(FCC), 26dBm(South America)
- Adjustable in 7 levels
- MAC Access Control
- MAC Access Table
- Wireless Client Isolation (e8 firmware)
- SSID, Channel, RTS Threshold, Frag Threshold

Environmental

- Operating temperature: 0~60 °C; Operating humidity (non-condensing): 20~80%
- Storage temperature: -20~65 °C
- Storage humidity: 95% Max

Power Supply

- DC12V

EMI

- FCC, CE

Product Weight (g)

- 236 g

Product Size (L x W x H (mm))

- 160 x 115 x 30 mm

Ordering Information:

AirLive WL-5470AP 802.11g Hi Power Multifunction AP/Router